

# Fluke 1555/1550C Insulation Resistance Testers

FLUKE®



Fluke 1555

Fluke 1550C



## Included accessories

Test Cables with Alligator Clips (red, black, green)  
Infrared adapter with interface cable  
FlukeView Forms Basic CD-ROM  
AC Power Cord  
Soft Carrying Case (base models only)  
English Manual  
Users Manual on CD-ROM  
Quick Reference Card  
Software License Agreement  
Registration Card  
FlukeView Forms Installation Guide  
USB-IR Cable Installation Guide  
IP67 Hard Case (kit only)  
Certificate of Calibration (kit only)  
Ruggedized Alligator Clips (kit and 1555 only)

## Software specifications

Fluke ViewForms basic software requires a PC running Windows 2000, Windows XP and Windows Vista.

## Optional Accessories

TL1550EXT 25 Foot Extended Test Lead Set

## Ordering information

1550C 5 kV Insulation Tester  
1555 10 kV Insulation Tester  
1550C/Kit 5 kV Insulation Tester Kit  
1555/Kit 10 kV Insulation Tester Kit

## Digital insulation testing up to 10kV

The new 1555 and redesigned Fluke 1550C insulation resistance testers offer digital insulation testing up to 10kV, making them ideal for testing a wide range of high voltage equipment including switchgear, motors, generators and cables. Fluke insulation testers can now conduct the entire range of test voltages specified in IEEE 43-2000 with a best in class, 3-year warranty and CAT IV 600 V safety rating. With measurement storage and PC interface, the 1555 and 1550C are perfect tools for preventative or predictive maintenance programs designed to identify potential equipment failures before they occur.

- Test voltages up to 10 kV (1555) provides solutions for all applications
- CAT III 1000 V, CAT IV 600 V safety rating
- Voltage breakdown detection alerts the user that voltage is present and gives the voltage reading up to 600 V ac or dc for increased user safety

- Selectable test voltages in 50 V steps from 250 to 1000 V, and 100 V steps above 1000 V
- Measurements can be stored in up to 99 memory locations, with each location assigned a unique, user defined, label for easy recall
- Long battery life gives the user over 750 tests between charges
- Automatic calculation of Dielectric Absorption (DAR) and Polarization Index (PI) with no additional setup
- Guard system eliminates the effect of surface leakage current on high-resistance measurements
- Large digital/analog LCD for easy viewing
- Capacitance and leakage current measurement
- Ramp function for breakdown testing
- Resistance measurements up to 2TΩ
- Timer settings up to 99 minutes for timed tests
- 3-year warranty

## Specifications

(Check the Fluke web for detailed specifications)

Test voltage (dc)	Range	Accuracy ( $\pm$ reading)
250 V	< 200 kΩ 200 kΩ to 5 GΩ 5 GΩ to 50 GΩ > 50 GΩ	unspecified 5 % 20 % unspecified
500 V	< 200 kΩ 200 kΩ to 10 GΩ 10 GΩ to 100 GΩ > 100 GΩ	unspecified 5 % 20 % unspecified
1000 V	< 200 kΩ 200 kΩ to 20 GΩ 20 GΩ to 200 GΩ > 200 GΩ	unspecified 5 % 20 % unspecified
2500 V	< 200 kΩ 200 kΩ to 50 GΩ 50 GΩ to 500 GΩ > 500 GΩ	unspecified 5 % 20 % unspecified
5000 V	< 200 kΩ 200 kΩ to 100 GΩ 100 GΩ to 1 TΩ > 1 TΩ	unspecified 5 % 20 % unspecified
10000 V	< 200 kΩ 200 kΩ to 200 GΩ 200 GΩ to 2 TΩ > 2 TΩ	unspecified 5 % 20 % unspecified
Bar Graph Range		0 to 1 TΩ
Insulation test voltage accuracy		-0%, +10% at 1 mA load current
Induced ac mains current rejection		2 mA maximum
Charging rate for capacitive load		5 seconds per $\mu$ F
Discharge rate for capacitive load		1,5 s/ $\mu$ F
	<b>Range</b>	<b>Accuracy</b>
Leakage current measurement	1 nA to 2 mA	$\pm$ (5% + 2 nA)
Capacitance measurement	0,01 $\mu$ F to 15,00 $\mu$ F	$\pm$ (15% rdg + 0,03 $\mu$ F)
<b>Timer</b>	<b>Range</b>	<b>Resolution</b>
	0 to 99 minutes	Setting: 1 minute Indication: 1 second
<b>Live circuit warning</b>	<b>Warning range</b>	<b>Voltage accuracy</b>
	30 V to 660 V ac/dc, 50/60 Hz	$\pm$ (15% + 2 V)

## Temperature (operating):

-20 °C to 50 °C (-4 °F to 122 °F)

## Temperature (storage):

-20 °C to 65 °C (-4 °F a 149 °F)

**Humidity:** 80 % to 31 °C decreasing linearly to 50 % at 50 °C

## Enclosure sealing: IP40

**Altitude:** 0 to 2000 m

**Power:** 12 V lead-acid rechargeable battery, Yuasa NP2.8-12

**Dimensions:** 170 mm x 242 mm x 330 mm

**Weight:** 3,6 kg (7,94 lb)

**3-year warranty**